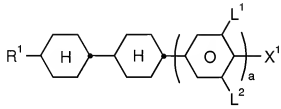
This listing of claims will replace all prior versions, and listings, of claims in the application:

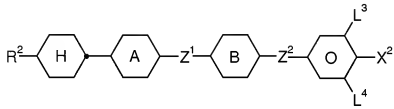
Listing of Claims:

1. (Currently Amended) Liquid-crystalline medium based on a mixture of polar compounds of positive dielectric anisotropy, comprising one or more compounds of the formula I



I

and one or more compounds of the formula IA



IA

where the proportion of the compounds of the formula I in the medium is at least 18% by weight, and in which the individual radicals have the following meanings:

R^1 is an alkenyl radical having 2 to 8 carbon atoms,

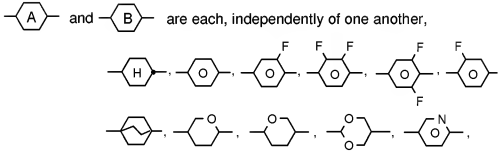
R^2 is H, an alkyl radical having 1 to 15 carbon atoms which is halogenated, substituted by CN or CF_3 or unsubstituted, where, in addition, one or more CH_2 groups in these radicals may each, independently of one another, be replaced by -C≡C-, -CO-, -CH=CH-, -O-,  ,  or  in such a way that O atoms are not linked directly to one another,

X^1 is an alkyl radical, alkenyl radical, alkoxy radical or alkenyloxy radical, each having up to 6 carbon atoms, in the case where a = 1 also F, Cl, CN, SF_5, SCN, NCS or OCN,

X^2 is F, Cl, CN, SF_5, SCN, NCS, OCN, a halogenated alkyl radical, halogenated alkenyl radical, OCF_3, $OCHF_2$, ~~halogenated alkoxy radical~~ or halogenated alkenyloxy radical, each having up to 6 carbon atoms,

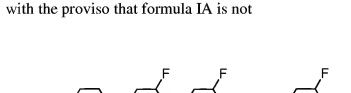
Z^1 and Z^2 are each, independently of one another, $-CF_2O-$, $-OCF_2-$ or a single bond, where $Z^1 \neq Z^2$,

a is 0 or 1, and

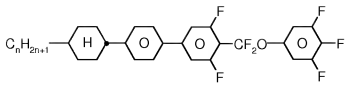


L^{1-4} are each, independently of one another, H or F,

with the proviso that formula IA is not

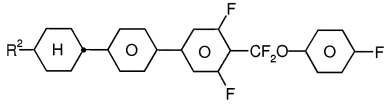


or

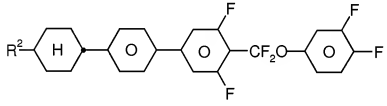


in which n is 1-15.

2. (Currently Amended) Liquid-crystalline medium according to Claim 1, comprising one, two or more compounds of the formulae IA-1, IA-2, IA-4 to IA-17, and IA-19 to IA-30



IA-1



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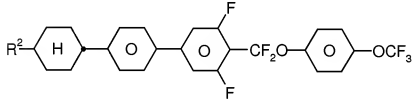

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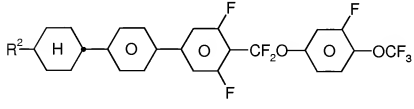

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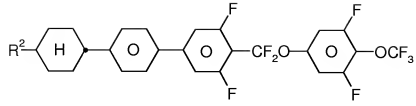

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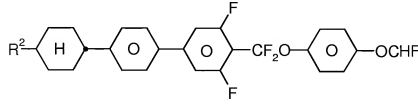

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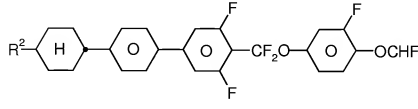

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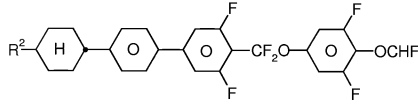

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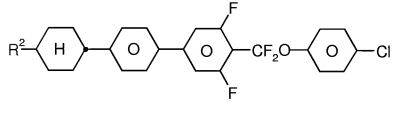

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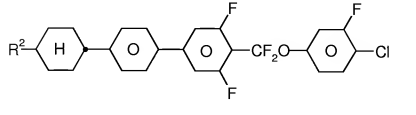

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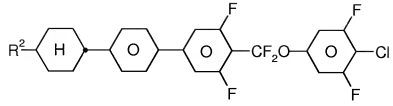

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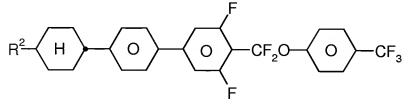

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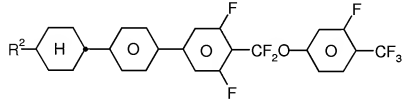

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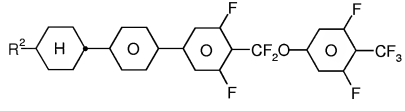

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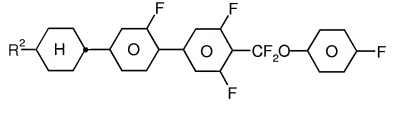

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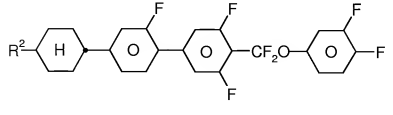

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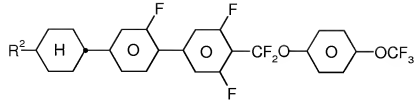

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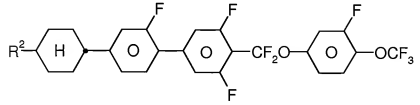

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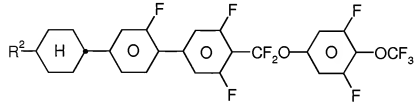

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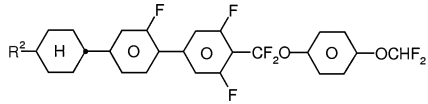

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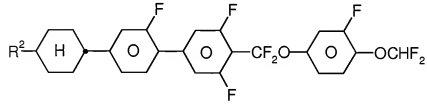

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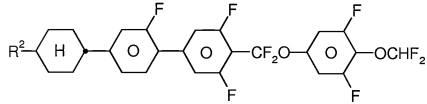

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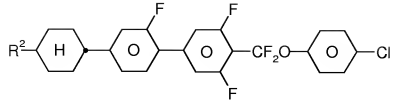

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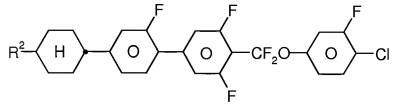

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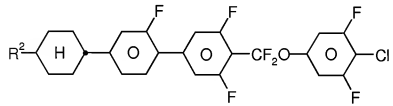

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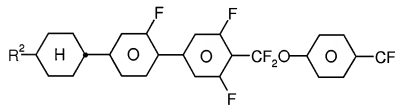

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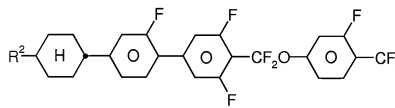

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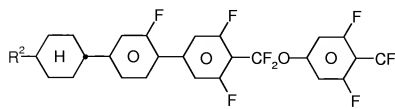
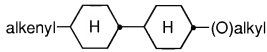


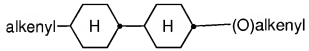
IA-30

in which R^2 is as defined in Claim 1.

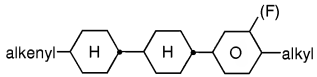
3. (Previously Presented) Liquid-crystalline medium according to Claim 1, comprising one or more compounds of the formulae I-1 to I-5



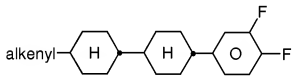
I-1



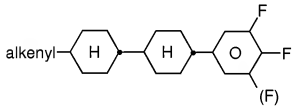
I-2



I-3



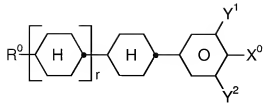
I-4



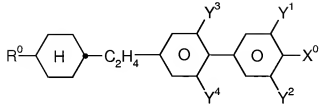
I-5

in which alkenyl is an alkenyl radical having from 2 to 8 carbon atoms and alkyl is a straight-chain alkyl radical having 1-15 carbon atoms.

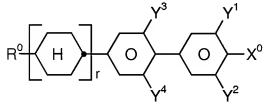
4. (Previously Presented) Liquid-crystalline medium according to Claim 1, additionally comprising one or more compounds of the formulae II, III, IV, V and VI



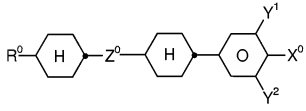
II



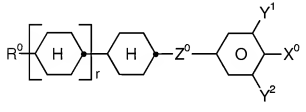
III



IV



V



VI

in which the individual radicals have the following meanings:

R^0 is H, n-alkyl, alkoxy, oxaalkyl, fluoroalkyl, alkenyloxy or alkenyl, each having up to 9 carbon atoms,

X^0 is F, Cl, halogenated alkyl, alkenyl, alkenyloxy or alkoxy having up to 6 carbon atoms,

Z^0 is $-C_2F_4-$, -CF=CF-, -CH=CF-, -CF=CH-, $-C_2H_4-$, -CH=CH-,

$-O(CH_2)_3-$, $-(CH_2)_3O-$, $-(CH_2)_4-$, $-CF_2O-$, $-OCF_2-$, $-OCH_2-$ or $-CH_2O-$,

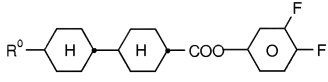
Y^{1-4} are each, independently of one another, H or F,

r is 0 or 1,

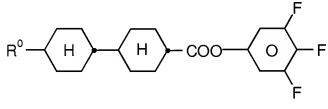
and the compound of the formula II is not identical with the compound of the formula I.

5. (Previously Presented) Liquid-crystalline medium according to Claim 4, wherein the proportion of compounds of the formulae IA and I to VI together in the mixture as a whole is at least 50% by weight.

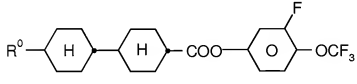
6. (Previously Presented) Liquid-crystalline medium according to Claim 1, additionally comprising one or more compounds of the formulae Ea to Ef



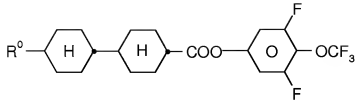
Ea



Ec



Eb



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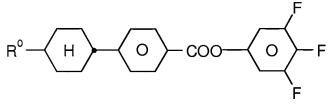
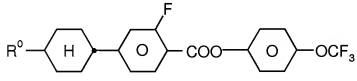


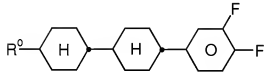
Ee



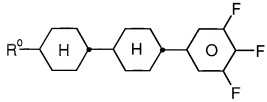
Ef

in which R^0 is H, n-alkyl, alkoxy, oxaalkyl, fluoroalkyl, alkenyloxy or alkenyl, each having up to 9 carbon atoms.

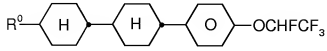
7. (Previously Presented) Liquid-crystalline medium according to Claim 1, comprising one or more compounds of the formulae IIa to IIg



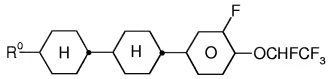
IIa



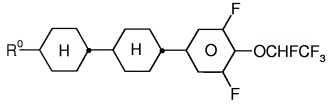
IIb



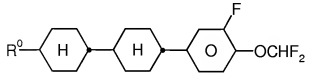
IIc



IId



IIe



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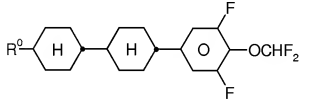
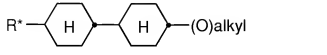


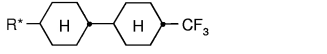
IIg

in which R^0 is H, n-alkyl, alkoxy, oxaalkyl, fluoroalkyl, alkenyloxy or alkenyl, each having up to 9 carbon atoms.

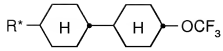
8. (Previously Presented) Liquid-crystalline medium according to Claim 1, it additionally comprising one or more compounds of the formulae RI to RVII



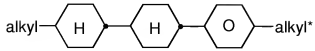
RI



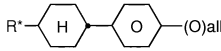
RII



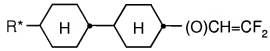
RIII



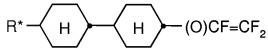
RIV



RV



RVI



RVII

in which

R* is n-alkyl, alkoxy, oxaalkyl, fluoroalkyl or alkenyloxy, each having up to 9 carbon atoms, and

alkyl and
alkyl* are each, independently of one another, a straight-chain or branched alkyl radical having 1-9 carbon atoms.

9. (Previously Presented) Liquid-crystalline medium according to Claim 1, wherein the proportion of compounds of the formula IA in the mixture as a whole is from 5 to 40% by weight.

10. (Canceled).

11. (Original) Electro-optical liquid-crystal display containing a liquid-crystalline medium according to Claim 1.

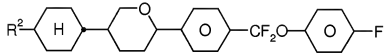
12. (New): A liquid crystal medium according to claim 1, wherein said medium has a nematic phase down to -40°C, a clearing point above 75°C, and a dielectric anisotropy values $\Delta\varepsilon$ of ≥ 6.

13. (New): A liquid crystal medium according to claim 1, wherein said medium has a flow viscosity ν_{20} at 20°C of < 19 $mm^2 \cdot s^{-1}$, a rotational viscosity γ_1 at 20°C of < 120 mPa·s, and a nematic phase range of at least 110°.

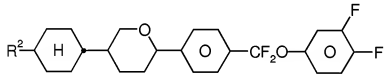
14. (New): A liquid crystal medium according to claim 2, wherein said medium contains one or more compounds selected from formulae IA-2, IA-5, IA-6, IA-14, and IA-15.

15. (New): A liquid crystal medium according to claim 2, wherein said medium contains one or more compounds selected from formula IA-15.

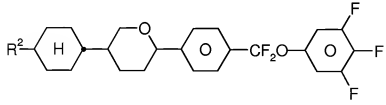
16. (New) Liquid-crystalline medium according to Claim 1, wherein said medium contains one or more compounds selected from formulae IA-31 to IA-54:



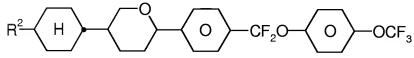
IA-31



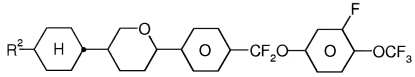
IA-32



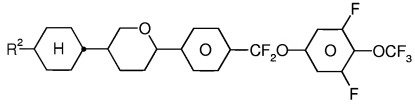
IA-33



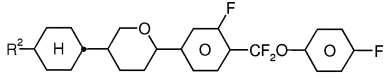
IA-34



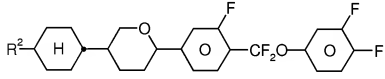
IA-35



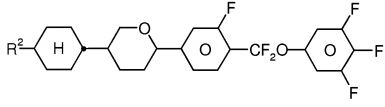
IA-36



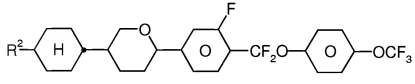
IA-37



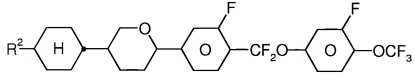
IA-38



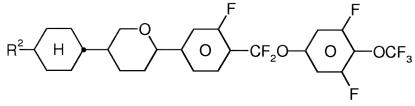
IA-39



IA-40



IA-41



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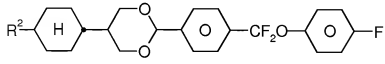

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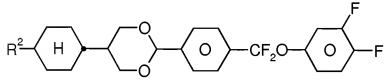

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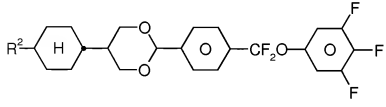
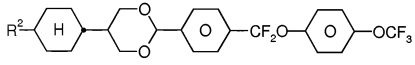


IA-45



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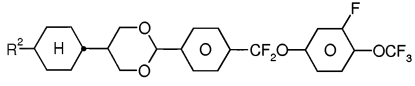

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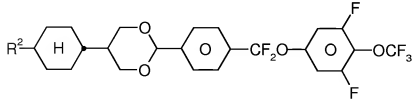

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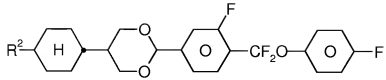

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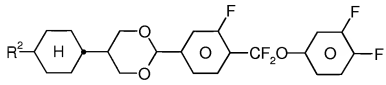
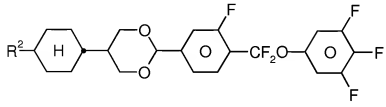


IA-50



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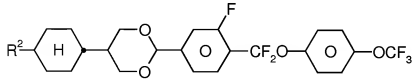

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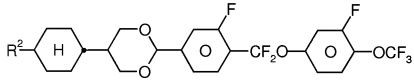

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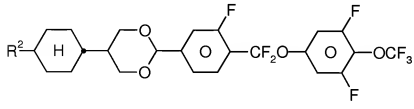
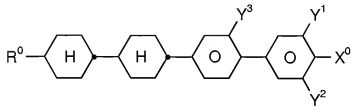


IA-54

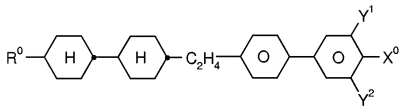
17. (New) Liquid-crystalline medium according to Claim 2, wherein R^2 in formulae IA and IA-1, IA-2, IA-4 to IA-17, and IA-19 to IA-30 is H, straight-chain alkyl having from 1 to 7 carbon atoms, 1E-alkenyl or 3-alkenyl.

18. (New) Liquid-crystalline medium according to Claim 16, wherein R^2 in formulae IA and IA-31 to IA-54 is H, straight-chain alkyl having from 1 to 7 carbon atoms, 1E-alkenyl or 3-alkenyl.

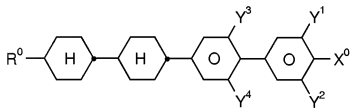
19. (New) Liquid-crystalline medium according to Claim 1, wherein said medium additionally comprises one or more compounds selected from formulae VII to XIII



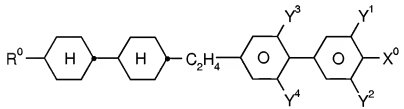
VII



VIII



IX



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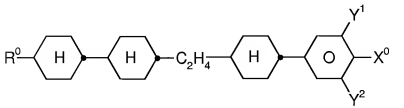
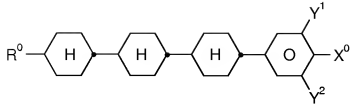


XI



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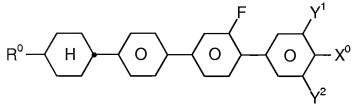

XIII

in which

R^0 is H, n-alkyl, alkoxy, oxaalkyl, fluoroalkyl, alkenyloxy or alkenyl, each having up to 9 carbon atoms,

X^0 is F, Cl, or halogenated alkyl, halogenated alkenyl, halogenated alkenyloxy, or halogenated alkoxy, each having up to 6 carbon atoms,

Y^1 and Y^2 are each, independently of one another, H or F, and

Y^3 and Y^4 are each, independently of one another, H or F.

20. (New) Liquid-crystalline medium according to Claim 6, wherein the proportion of the compounds of the formulae Ea to Ef is 10-30% by weight.